



SERVICE BULLETIN

Health Imaging Products

Eastman Kodak Company, Health Imaging, Rochester, NY 14650

SERVICE BULLETIN NO. 310

MARCH 2003

3752 Kodak Min-R MAMMOGRAPHY PROCESSOR
3554 Kodak X-Omat 2000 PROCESSOR
3555 Kodak X-Omat 2000A PROCESSOR
3402 Kodak AUTOMIXTER III PLUS
3425 Kodak X-Omat 5000 RA PROCESSOR
3434 Kodak X-Omat 3000 RA PROCESSOR
3228 Kodak X-Omat 480 RA PROCESSOR
3056 Kodak X-Omat 460 RA PROCESSOR
3059 Kodak X-Omat 270 RA PROCESSOR
3227 Kodak X-Omat 180 LP PROCESSOR
3198 Kodak X-Omat 180 LPS PROCESSOR
3291 Kodak X-Omat 270 RA INTEGRATED PROCESSOR in a
Kodak X-Omat MULTILOADER 300
3488 Kodak X-Omat 3000 RA INTEGRATED PROCESSOR in a
Kodak X-Omat MULTILOADER 300 PLUS
3466 Kodak X-Omat 3000 RA INTEGRATED PROCESSOR in a
Kodak X-Omat MULTILOADER 7000

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RA/LP PROCESSOR Diagnostics for use with the Windows OPERATING SYSTEM

RA/LP PROCESSOR Diagnostics for use with the *Windows* OPERATING SYSTEM is available to order from Service Parts Management. It is available in 2 formats, CD-ROM (P/N 1F2580) and 2 floppy diskettes (P/N 1F2577).

It can be used with the following operating systems:

- *Microsoft Windows 98* OPERATING SYSTEM
- *Microsoft Windows 2000* OPERATING SYSTEM
- *Microsoft Windows NT* OPERATING SYSTEM

It can be used with the following PROCESSORS with a **500** Circuit Board, which utilize Laptop Diagnostics:

- 460 RA PROCESSOR
- 480 RA PROCESSOR
- 270 RA PROCESSOR
- 180 LP/LPS PROCESSORS
- 270 RA INTEGRATED PROCESSOR
- 3000 RA INTEGRATED PROCESSOR

It can be used with the following PROCESSORS with a **5000** Circuit Board, which utilize Laptop Diagnostics:

- 180 LP/LPS PROCESSORS
- 270 RA INTEGRATED PROCESSOR
- 3000 RA INTEGRATED PROCESSOR

Note: The following PROCESSORS with a 5000 Circuit Board, utilize **Internal Diagnostics**:

- 460 RA PROCESSOR
- 480 RA PROCESSOR
- 270 RA PROCESSOR
- 3000 RA PROCESSOR
- 5000 RA PROCESSOR

RA/LP PROCESSOR Diagnostics for the *Windows* OPERATING SYSTEM operates essentially the same as the *DOS* based diagnostics, except you navigate using a mouse instead of the keypad.

An improved feature of the RA/LP PROCESSOR Diagnostics for use with the *Windows* OPERATING SYSTEM is the ability to view the A/D count (Analog to Digital conversion value).

To view the A/D value, go to:

- SPECIFIC MODE TEST
- CIRCUIT BOARD TEST
- Look at the value under PRECISION RESISTOR TEST

The value should fall between 160,200 and 162,700, and in a properly operating 5000 circuit board, it is generally near the midpoint of 161,450. If you experience an E001 CIRCUIT BOARD error, or E010 A/D CONVERTER error, you can use the A/D value to help confirm an A/D CONVERTER error. An A/D CONVERTER error can also be reported if the POWER SUPPLY voltages on the 5000 circuit board are incorrect or if there is an improperly functioning THERMISTOR.

Smooth Guide Shoes in the Turnaround of the Fix Rack and Wash Rack for *Min-R* MAMMOGRAPHY PROCESSOR

Smooth GUIDE SHOE, P/N 7C7860 is now used in the TURNAROUND of the FIX and WASH RACKS in *Min-R* MAMMOGRAPHY PROCESSOR. This was done to eliminate lead and trail edge scratches (often referred to as “tick marks”), which may result from the 1 inch spaced ribs on the original guides shoes.

Implemented Sept 2002, S/N 232,489

The SMOOTH GUIDE SHOE, P/N 7C7860 is now used in all 3 positions in the TURNAROUND ASSY in the FIX RACK and WASH RACK.

The new packed racks, which include the SMOOTH GUIDE SHOES are available at Service Parts Management:

1F1933	FIX RACK ASY
1F1931	WASH RACK ASY
1F1934	TURNAROUND ASY

Electrical Box Changes and new Wiring Diagrams for the 2000 and 2000A PROCESSORS

Production changes were made to the 2000 PROCESSOR electrical box for interlocking the blower and drive motors with the top cover. Also, the wiring of the electrical box was made more consistent with the *Min-R* MAMMOGRAPHY PROCESSOR electrical box. One of the areas that changed is how TB3-3 is connected. There should be three wires on the TB3-3 on the X-2000: the #5 wire from TB2-8, a wire to the blower motor, and a wire to the drive motor.

The Electrical DIAGRAMS, P/N 7C8773 have been updated to reflect the wiring changes and are available to order from Service Parts Management.

Solenoid Kit for the 5000 RA PROCESSOR

Beginning with Serial Number 101,197, the WATER SOLENOID for the 5000 RA PROCESSOR is inverted, so that the contacts are on top and a COVER is placed over them, to prevent water from damaging the SOLENOIDS. The WATER SOLENOID ADAPTER PLATE KIT, P/N 1F4101, provides the necessary new parts to convert units below S/N 101,197, to this new configuration.

New EVAPORATION COVERS for the 5000 RA PROCESSOR

New EVAPORATION COVERS are available for the 5000 RA PROCESSOR, P/N 6E5833 has a raised ridge that prevents the CROSSOVER ROLLERS from rubbing on the EVAPORATION COVERS.

New VENTING KIT Available for the AUTOMIXER III PLUS

To prevent corrosion in an AUTOMIXER III PLUS or a 3000 RA PROCESSOR, which has an AUTOMIXER III PLUS installed in the stand below the PROCESSOR, the AUTOMIXER III PLUS should be properly vented.

Beginning with serial number 120,000, the AUTOMIXER III PLUS has a new EVAPORATION COVER (P/N 4E9326), which is installed between the AUTOMIXER III PLUS and the 3000 RA PROCESSOR, to prevent moisture from entering the cabinet of the 3000 RA PROCESSOR. The AUTOMIXER III PLUS also has a new REAR PANEL (P/N 4E9757) with holes for (2) EXHAUST ADAPTERS (P/N 468535), which allow you to properly vent the AUTOMIXER 3 PLUS.

To vent an AUTOMIXER III PLUS with S/N 120,000 and above, you can order the EXHAUST KIT, P/N 4E9696, which includes the following parts:

Part No.	Description	Qty.
5E6831	Y-FITTING, 3 INCH	2
5E6832	DAMPER GATE, 3 INCH	2
4E9701	INSTALLATION INSTRUCTIONS	1

To vent an AUTOMIXER III PLUS below S/N 120,000 you will need to order the EXHAUST KIT, P/N 4E9696, and the following additional parts:

Part No.	Description	Qty.
4E9326	COVER-EVAPORATION	1
4E9757	PANEL-REAR	1
468535	ADAPTER-EXHAUST	2
544194	SCREW, 6-32 x ½ INCH	4
165627	WASHER	4
853096	LOCK WASHER	4
852620	NUT	4

Please refer to the INSTALLATION INSTRUCTIONS, P/N 4E9701 for the proper ventilation specifications.

Deb Trubatch, Service Engineer- Rochester

For more information please contact:

Eastman Kodak Company
Health Imaging
1-800-328-2910 (U.S.A. Only)
651-393-1728 (Outside the U.S.A.)

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